EUROPEAN PATENT APPLICATION

- Application number: 87200266.2
- @ Int. CL* B65D 5/32 , B65D 5/54

- (a) Oate of filling: 19.02.87
- Priority: 01.03.86 GB 8805113
- Date of publication of application. 09.09.87 Builetin 87/37
- (6) Designated Contracting States: AT BE CHIDE ES FRIGB IT LI LUINL
- (F) Applicant THE PROCTER & GAMBLE COMPANY

One Procter & Gamble Plaza Cincinnati Obio 45202(US) CH ES GB LI AT Applicant: Prooter & Gamble European

Technical Center (Naamloze Vennootschap) Temselaan 190 B-1820 Strombeek-Bever(BE)

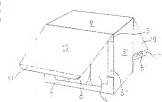
BE DE FRITLUNL

@ Inventor: Leebeek, Antonius Cornelius Gerardes Rés.les Pagodes 9 Av.des Croix du Feu 161 8-1020 Bruxe(les/BE) invenior: Verdoodt, Dirk

Koningia Astridiaan 146 Bus 301 8-2800 Mechalan(BE)

(A) Representativo: Suello, Lydia et al Procter & Gambie European Technical Center N.V. Temselaan 100 B-1820 Strombeek-Bever(BE)

- Essy-opening device for a two-plece chipping/display container.
- (F) Two-piece shipping/display container, the lid part of which covers the top and opposite side panels of the tray part and is attached to a partially perforated contain of the lower frame portion of the concepte side panels, said parially periorated portion being orn out when the lid part is removed.



EASY-OPENING DEVICE FOR A TWO-PIECE SHIPPING/DISPLAY CONTAINER

m

Technical Field

The invention related to a two-poince tripping/display container which is completely closed during the shipping stage, can be easily opened for the display stage and presents, upon opening, two opposite windows in the two opposite front pariet and an open top.

Background of the Invention

Present shipping, storing and displaying techniques have made if desirable to be able to use the same container at each of these three stages, also when the individual items packed in the container are rather large or heavy. The requirements to be fulfilled at each of these stages are mostly quite different and cometimes even contradictory, indeed, for the shipping and storing steges it is important that the containers be strong, allow stacking, and keep the consents free of dust. At the display stace, strength and stackability are still important, but the individual flerus packed in the containers have to be visible and easily accessible for price-marking and removal. It is furthermore highly desirable that the containers can be easily opened without need for a tool or much time or energy. Furtherroore, upon opening, no raw or unsightly edges should be left. Finally, it is highly desirable that all the material used for a shipping/storing/display container be of the same type. In order to render the scrapping operation more economical. All these requirements have to be fulfilled without unduly increasing the cost of the confainer.

It is, therefore, an object of the present investion to provide a container which keeps its contentior free of dust during shipping and storing, which is strong enough to allow strestmen during shappingstarting and displaying of a number of ather heavy or bulky individuel Items and which, at the same time, is easy to open at the display stage without leaving any raw or uneignify edges and open full visibility to its contents, allowing easy price-marking and removal of the individual, frequently heavy items it contains.

A stipping-disolay container oftening good statability good accessibility and easy spening has been disclosed in the dat yet published European patent application 8201590.8 filed Schober 2, 1985, Catemag priority of British application 8242582 filed October 12, 1984, Easy opening of a cardboard container by combination of gluing and

partial performtion at the planned opening soot has been disclosed for example in German patent application 2.217.946, filled April 14, 1872, published October 25, 1973. Nate of those containers certhine, however, the advantages of stranget outring shippingstoring/display; of protection from dust during shippingstoring; and of externitive viability of the individual items during display, combined with easy price marking and accessibility.

Summary of the Invention:

in the present invention, a two-piece shipping/display confamer is provided. The bottom or tray part consists of a bottom, two opposite sidepanels, two opposite composite front-panels and four reinforcing comer pillers. The two opposite composite front penels are provided with a seethrough window, whereas the two opposite sidepanels show an extension which serves as too flaps when folded over by 90° towards each office. said too flaps serving as basis on which the central portion of the second part of the container can be attached by means of an adequate number of clue spots, to serve as a lid. The second part, or lid part, consists of a blank showing four creases. which divide the blank into five portions, the central portion serving as too for the complete conteiner. the two extensions on the two opposite sides of the central portion serving as cover for the see-through windows left in the two apposite composite front panels of the container and the two extreme shorter extensions serving partially for gluing onto the tray part to close the container and partially as opening tabs of the lid part for the container. When the container is to be opened, it is sufficient to pull at the opening tabs to detach the lid part from the tray part, onto which it is attached by adequate glue both along the tower edge of the see-through windows and on the folders-over extensions of the top of the side-panels.

In a preferred embodiment, the part of the two extremes chorter portions which serves for gluring onto the two part coincides with a partially perforated part in the two oppositic composite from parties, and partiesty perforated part constituting the lower order of the see-through windows when the container is in uprigit position, in this way, when the morphose estimating the discharge container is to be operated to serve its display function, the extreme firse and of one or both of the shares portions of the lid part which is free of glue can be gracped and, by pailing, the partially perforated part in the hos opposite composite from parals constituting

For the sake of aimplicity and clority reference, in made to two opposite front purels for, as will be seen from the drawings and description, these two apposite front panels are shoulderly identical and can each, or both together, be considered front panels at the display stope, where this nealty matter. These two opposite front panels are designated as composite front panels since they are both they included stemants as will be evident from the description of the drawinge hereafter, this being in contradiction with the opposite side pacels, which each consist of an integral piece of cardibrard.

Brief description of the Drawinus

While the specification concludes with the claims which particularly point out and distinctly claim the subject matter forming the present invention, it is believed the invertifion will be better unnerstood from the tellowing description taken in conjunction with the accompanying drawings in which identical features in the ceveral views are identically designated and in which:

Fig. 1a is a plan view of the carron blank for the bottom or tray part of the most preferred entendiment of the container according to the present invention.

Fig. 1b is a plan view of the top or lid part for the container formed of the carron blank represented in fig. 1s.

-Fig. 2 is a parapactive view of the erected bottom or tray part of the container formed of the carlon blank represented in fig. 1a on which the top or lid part formed of carlon blank represented in lig. 1b has been partiety attached (the normally ocurs only after the fary part has been filled).

-Fig. 3 is a perspective view of the closed container of fig. 2.

-Fig. 4 is 6 perspective view of a filled occitainar constructed with blanks represented in fig. 1a and 1b, which is being opened.

Fig. 5 is a perspective broken-away view showing how one of the extreme shorter portions of the top or life chosed the top or life chosed contained and to lear away part of the front penel

constituting the lower edge of the see-through window

Detailed Description of the Drawings

The blank for the bollom or tray part 20 of container 1 illustrated in Fig. 1s consists of bottom penel 2, side panels 3 and 3', bp. flags 4 and 4' provided with sams 5, 5', 5' and 5', piller elemons 6, 6', 6' and 6'', composite trem penels basis elements 7 and 7'', with preduit laar-out sreas 8 and 8'.

The blank for the top or lid part 21 liketrated in fig. 15 consists of central portion 9, extensions 10 and 10° and two extreme shorter extensions 11 and 11°. Glue strips to be apposed when closing the container are indicated by 13 and 13°.

Fig. 2 shows how the carton blank of fig. 1a. has been elected to form the bottom or tray part of the container and how the container will be closed after filling. Side pariets 3 and 3' have been brought in vertical position, elements for pillars 6, 6', 6' and 8" have been folded over in a conventional way to build pillers resting partially against side penels 3 and 3' and basis elements 7 and 7' have been brought in vertical position, partially folded over by 180° towards the inside of the container, the tolded-over parts being held in place by gipe in order to form the basis of the composite front panels. After filling, top flaps 4 and 4" (not shown) have been folded inwards by 30° and gars 5, 5', 5" and 5" have been folded down and glued against respectively pillars 6, 6', 6" and 6". Subsequently, central portion 9 of lid part 21 is strached by glue spots 12 on the top flaps 4 and 4' and extensions 10 and 10' are folded down by 90's and held in place by glue strips 13/13' in extension 11/11' against basis elements 7 and 7, in the produt tearout areas 8 and 8".

Fig. 3 shows the eracted container represented in fig. 2 after it has been filted and closed. Central cortion 9 of the top or ill part has been attached by means of give spoto 12 on the fisses 4 and 4 of the bottom or tray part, whereas extensions 11 and 11 of said boy or illip part have been stacked by means of a give abio 13 close to the folding line of pre-out tear-out parts 8 and 8 of the bottom or tay part of the container it is evidend that first complete container combines stability with good protection of its container.

Fig. 4 shows how the erected, filted and closed container of fig. 3 has been partially opened and how fierns 14 ff contains, can already be seen. When comparing fig. 2 with fig. 4, it is evident that, by pulling on extensions 11/11, perforated cets

246

8/6' of the composite front panels are removed and the see-through windows are enlarged, so that items 14 shipped and displayed in the container can be better seen and more easily removed.

Fig. 5 shows how the pre-cut parts 8/8' of basis elements 777' are being forn away when the closed container is opened by bulling at extensions 11/11'.

Although the above embodiment shows a preferred execution of the invention, it will be evident to the man of the art that a number of variations are possible, inclusive of providing the container with the enlarged see-through window in one front panel only, providing carrying-holes in the side panels, altering the retailive dimensions of the container, etc.

Claims

 Two-piece shipping/display container (1) comprising:

a. a bottom or tray part (20) consisting of a bottom (2), two opposite side-panels (5,31) showing an extension (4,4") to be folded over by 90° towards each other; two opposite composite front panels each with a see-through window; and four reinforcing corner pillars (6, 8', 8", 8"):

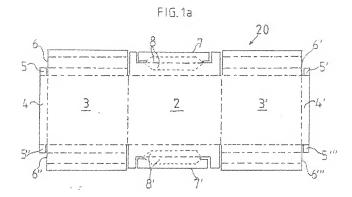
b. a top or lid pat (21): characterized in that said lid part consists of a blank showing four creases which divide the blank into five portions, the central portion (8) coinciding with the open top of the tray part (20) of the container, the two portions (10, 10) on the two opposite sides of the central portion (9) coinciding with the two opposite composite front panels of the tray part (20) and extending as far as to cover the see-through windows; and two extreme shorter portions (11, 11") which are partially glued underneath the one-through windows in both front panels of the tray of the container, the extreme free end of both shorter portions being left free of give.

2. Two-piece shipping/display container according to claim 1, characterized in that the gloed -(13, 13) part of one or each of the two extreme shorier contions (11, 11') coincides with a panially perforated part (8, 8') in one or each of the two opposite/composite front panets, said parbally perforsted part (8, 8') constituting the lower edge of the see-through windows when the conteiner is in conghi position.

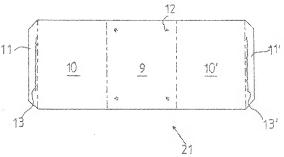
3. Two-piece shipping/display container according to any of the preceding claums, characterized in that it is filled by rown of individual items -(14).

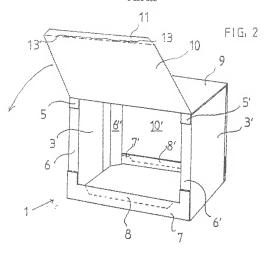
\$5

4









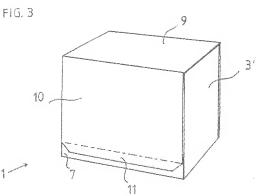


FIG. 4

